

# Enabling SNMP on TP-Link TL-SG2452 switches

Go to the switch's web interface by typing its IP in the URL. Go to the menu « SNMP ⇒ SNMP Config ».

You will arrive on the tab « Global Config » :

The screenshot shows the TP-Link TL-SG2452 web interface. The left sidebar has a navigation menu with links like System, Switching, VLAN, Spanning Tree, Multicast, QoS, ACL, and SNMP. Under SNMP, there are sub-links for SNMP Config, Notification, RMON, Maintenance, and Save Config. The main content area has tabs for Global Config, SNMP View, SNMP Group, SNMP User, and SNMP Community. The Global Config tab is selected. It contains sections for Local Engine and Remote Engine, each with an ID input field and an Apply button. A note at the bottom states: "Note: The total hexadecimal characters of Engine ID should be even."

Tick the « Enable » and click on « Apply ».

In the tab « SNMP View » :

The screenshot shows the TP-LINK TL-SG2452 web interface. The top navigation bar includes tabs for Global Config, SNMP View (which is selected), SNMP Group, SNMP User, and SNMP Community. On the left, a sidebar menu lists System, Switching, VLAN, Spanning Tree, Multicast, QoS, ACL, SNMP, and a expanded section for SNMP Config containing Notification, RMON, Maintenance, Save Config, and Logout.

The main content area is titled "View Config". It contains fields for "View Name" (a text input field with a note "(16 characters maximum)"), "MIB Object ID" (a text input field with a note "(61 characters maximum)"), and "Create" (a blue button). Below these are radio buttons for "View Type": "Include" (selected) and "Exclude".

A "View Table" section displays a list of MIB objects with columns for Select, View Name, View Type, and MIB Object ID. The table contains four rows:

Select	View Name	View Type	MIB Object ID
<input type="checkbox"/>	viewDefault	Include	1
<input type="checkbox"/>	viewDefault	Exclude	1.3.6.1.6.3.15
<input type="checkbox"/>	viewDefault	Exclude	1.3.6.1.6.3.16
<input type="checkbox"/>	viewDefault	Exclude	1.3.6.1.6.3.18

At the bottom of the table are three buttons: "All", "Delete", and "Help".

Here you can create views, which are sets of rules for including or excluding MIB elements in our supervision via their OID. The « viewDefault » view includes OID 1, i.e. all the elements of this MIB (since it is a hierarchical system) except for the 3 excluded OIDs.

For this tutorial, we are going to use this « viewDefault ». You can therefore go directly to « [Ajouter une communauté SNMP](#) ».

## Add an SNMP community (SNMP v1/v2c)

In the « SNMP Community » :

The screenshot shows the TP-Link TL-SG2452 web interface. The left sidebar contains navigation links for System, Switching, VLAN, Spanning Tree, Multicast, QoS, ACL, SNMP, and SNMP Config (which is currently selected). The main content area has tabs for Global Config, SNMP View, SNMP Group, SNMP User, and SNMP Community (which is also selected). The SNMP Community section displays a form for creating a new community named 'esia' with 'read-only' access and 'viewDefault' MIB view. It includes 'Create' and 'Clear' buttons. Below this is a 'Community Table' with columns for Select, Community Name, Access, MIB View, and Operation (with buttons for All, Delete, and Help). A note at the bottom states: 'The default MIB view of community is viewDefault.'

- Enter the name of the SNMP community.
- Choose the access type (leave « read-only » because ESIA does not use write).
- Choose the view to be used (here we are using the « viewDefault »).

Then click on « Create ».



That's it, SNMP is now configured for versions v1 and v2c.

**Don't forget to click on « Save Config ».** Otherwise your configuration will be lost when the switch is rebooted.

## If you want to configure SNMP v3

It is not necessary to use SNMP v3 with ESIA. However, if you want to enable it, you should know that in ESIA you can only configure your nodes with SNMP v3 by adding them manually (See [Adding nodes manually](#)). Via a network scan, you can only configure in v1 or v2c.

Click on the « SNMP Group » :

**Group Config**

Group Name: esia (16 characters maximum)

Security Model: v3

Security Level: noAuthNoPriv

Read View: viewDefault

Write View: None

Notify View: None

**Create**    **Clear**

**Group Table**

Select	Group Name	Security Model	Security Level	Read View	Write View	Notify View	Operation
				All	Delete	Help	

**Note:**  
A group should contain a read view, and the default read view is viewDefault.

- Give the group a name.
- Choose the SNMP version (v3).
- Choose the security mode.
  - noAuthNoPriv: no security.
  - AuthNoPriv: authentication by user and password.
  - AuthPriv: authentication by user and password + encrypted communication.
- Choose the view to be used for « Read, Write et Notify » access (here we are using the « viewDefault » Read only).

Then click on « Create ».

Click on the « SNMP User » :

The screenshot shows the 'User Config' section of the SNMP User configuration page. It contains the following fields:

- User Name:** esia (16 characters maximum)
- User Type:** Local User
- Security Model:** v3
- Group Name:** esia
- Security Level:** noAuthNoPriv
- Auth Mode:** None
- Privacy Mode:** None
- Auth Password:** (16 characters maximum)
- Privacy Password:** (16 characters maximum)

Buttons: Create, Clear

**User Table**

Select	User Name	User Type	Group Name	Security Model	Security Level	Auth Mode	Privacy Mode	Operation
								All Delete Help

**Note:**  
The security model and security level of the user should be the same with that of its group.

1. Give the user a name.
2. Choose the user type (Local User).
3. Choose the SNMP version (v3).
4. Choose the group name (the one created previously and linked to the view you wish to use).
5. Select the security mode.
6. If security mode « Auth » is selected, choose the Hash algorithm to use (MD5 or SHA).
7. Enter a password for authentication.
8. If security mode « Priv » is selected, choose the encryption mode (this switch only offers DES encryption).
9. Enter a password for encryption.

Then click on « Create ».



That's it, SNMP is now configured for version v3.

**Don't forget to click on « Save Config ».** Otherwise your configuration will be lost when the switch is rebooted.

For more information on TP-Link TL-SG2452 switches: [See TP-Link TL-SG2452 support.](#)

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